



Defense Acquisition Domain (Sourcing) (DADS) Analysis of Alternatives (AoA)

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28 April 2004 FRB
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Overview



- What's an AoA all About?
- Purpose of Doing an AoA
- Operational Environment
- DADS AoA
 - Authority and Scope
 - Schedule
 - Status of Planning Efforts
- Conclusion







 Definition: Rigorous analysis to evaluate the <u>cost and effectiveness</u> of potential materiel alternatives selected to meet a mission requirement

Key AoA Components

- Alternative development
- Effectiveness analysis
- Cost analysis
- Cost/effectiveness analysis

DoDI 5000.2
Operation of a Defense Acquisition



Purpose of Doing an AoA



What are Some of the Reasons for Doing AoAs?

- To justify need for starting, stopping or continuing an acquisition program
- To support decision making
 - Requirements Generation & Modernization Planning
 - Planning, Programming & Budgeting System (PPBS)
- To support Decision Makers by providing reliable, objective assessments of the options available for meeting real mission needs, based on cost, effectiveness, and risk

Required -- potential ACAT IA Major Automated Information Systems (MAIS)

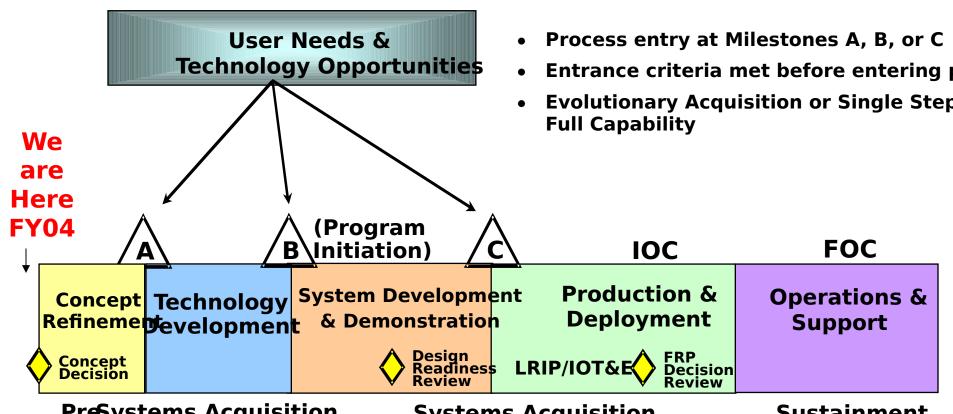
(Any one year program cost of \$32M or Total program cost exceeds \$126M)



Defense Acquisition Framework







PreSystems Acquisition

Systems Acquisition

Sustainment



AoA Benefits





Aids decision maker

- Links requirements & measures of effectiveness
- Shows cost & effectiveness sensitivities to changes in assumptions & parameters
- Identifies cost & effectiveness risk

Fosters joint ownership between decision maker & all levels of support staffs

- Provides reasonable screening of alternatives
- Identifies key assumptions and variables
- Uncovers "biggest bang for the buck"
- Ensures integrity through independent analysis
- Documents analysis to support decision



Operational Environment





- DoD's Business Management Modernization Program (BMMP) has 6 Business Domains
 - Accounting/Finance * * Integral to End-to-End Process
 - Acquisition *
 - Logistics *
 - Human Resource Management
 - Installation and Environment
 - Strategic Planning and Budgeting
- Capability Gap Joint, seamless, end-to-end procurement process to realize efficiencies in supplying goods and services to the Warfighter



DADS AoA



- Purpose: Way ahead beyond SPS V4.2
- Scope: Sourcing
 - Moves beyond contract writing to include contract management, purchase card & assistance agreements
- Authority: DPAP directed AF to lead effort
 - AFMC/PKS leading AoA planning and execution
 - Joint: All DOD Components represented



DADS AoA



Current Gaps:

- Limited integration with business partners; no DoD enterprise-level spend data; not CFO compliant
- AoA Alternative Categories: Status Quo, Modified Status Quo, COTS, GOTS (or combination)
 - Will select representative solutions for analysis
 - Not necessarily a replacement of SPS
 - May not be a single application



Schedule





1. Planning Phase **30%-40%**

3-6 months

- Define Problem
- Build Team
- Develop Plan
- Collect Information

3. Present 20%-30%

2-4 months

- Package Results
- Present Findings
- Publish Report

Study Plan Expectations (total timeline 8-16 months)

> 2. Analyze 30%-40%

3-6 months

Collect Data

Identify Tools

Execute Tools

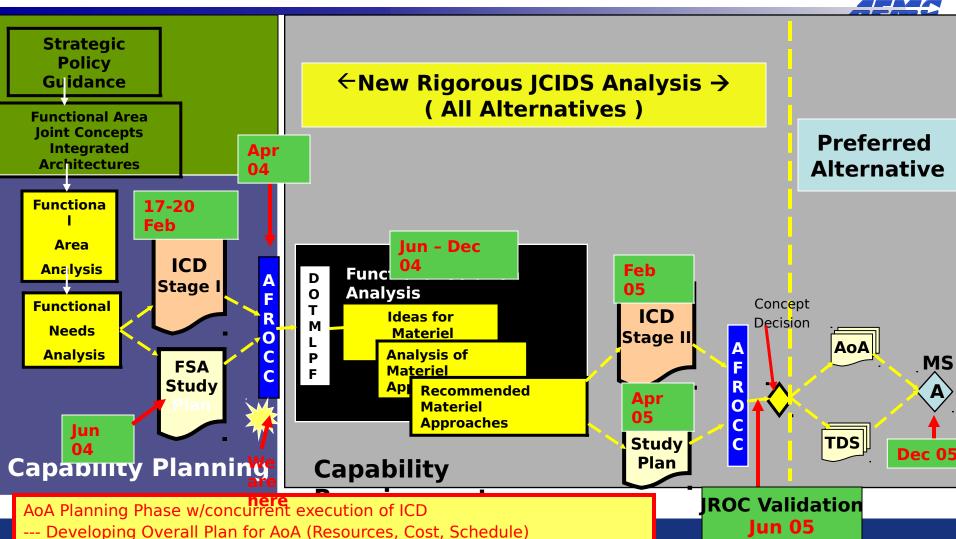
Evaluate Sensitivities

Interpret Findings



AOA Integrated Schedule





--- DoD Resources Being Identified for Implementing Study Team



Preliminary Requirements (Sample)



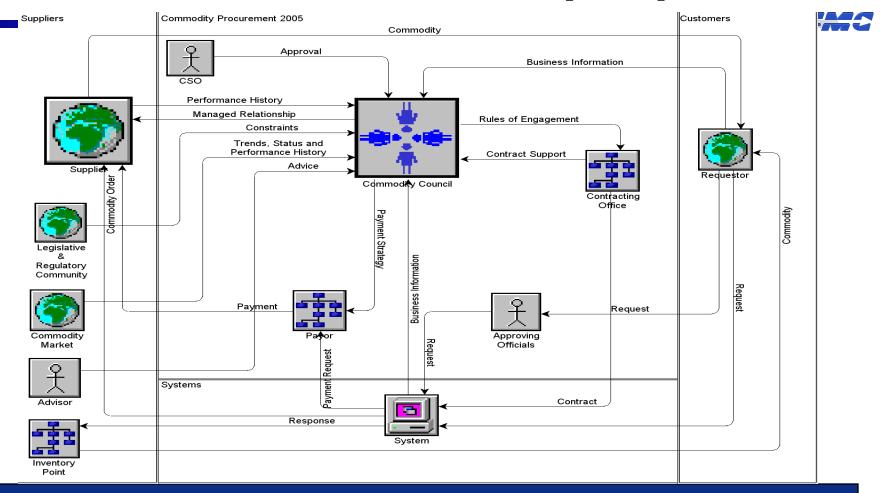
AFMC

- Law: CFO Act, Clinger-Cohen, GPRA, FISMA, etc
- DoD Business Process Re-engineering Workshops
- Govt Purchase Card IPT
- PD2 299 Requirements
- DLA Business System Modernization (BSM)
- Technical:
 - Business Enterprise Architecture and Service EAs
 - Global Information Grid CRD
 - Network Core Enterprise Services ICD
 - Global Combat Support System
- NARA Records Management



Architecture for Procurement (OV)





Defines environment for procuring supplies, services and construction across the Air Force: must sync with AoA



Accomplishments to Date



- Developed Initial Capabilities Document (ICD) I
 - High level statement of requirements
 - AFROCC and Acquisition Domain Reviews
 - No "Critical" level comments received
- Established 5 AoA Working Groups
 - Sourced WG leads and members
 - Using Office of Aerospace Studies as consultant
- Functional Solutions Analysis Plan & ICD I briefed to AFROCC on 22 April



issues/Expectations





- Aggressive schedule AT&L memo required JROC approved ICD, MDA approved AOA Plan by Q2FY04
 - Timeline untenable OSD DPAP apprised and concurred with timeline TBD (as soon as possible)
- Need preliminary validated requirement to support DCMA POM 06 input (ICD I)
- Requires significant joint commitment/resources
- We will call on you for requirements review / definition-- we want to get it right



Conclusion



- AoA lays groundwork for way ahead
- Opportunity for Acquisition Domain to move forward as an integrated community
- The goal is interoperability with our business partners across the enterprise





OUESTIONS





BACK UP CHARTS



Alternatives





An Alternative is a proposed materiel solution (hardware and/or software)

to an identified operationa AF Product Centers





- AF Research Laboratory
- AF MAJCOMs
- Army or Navy
- **National Laboratories**
- Contractors
- Others

Sources

- Host platforms (satellite, aircraft, ship, etc.)
- Scientific principles (IR, radar, etc.)
- **Engineering implementations (piloted,** autonomous, etc.)
- IT alternatives (networked, distributed, centralized, etc.)

Variations